

	SAS® Certified Programming Associate	SAS® Certified Base Programming Specialist	SAS® Certified Advanced Programming Professional
Exam Format	Multiple choice	Performance-based	Performance-based
Prerequisite Credential	None	None	Base Programming Specialist*
Hands-On Programming Experience	Less than 3 months	3-6 months	At least 1 year
Job Skills	<ul style="list-style-type: none"> <li>• Read and create data files.</li> <li>• Manipulate and transform data.</li> <li>• Create basic summary reports using SAS procedures.</li> </ul>	<ul style="list-style-type: none"> <li>• Read and create data files.</li> <li>• Manipulate and transform data.</li> <li>• Create basic summary reports using SAS procedures.</li> <li>✓ Resolve programming errors.</li> <li>✓ Prepare data for analytics and reporting.</li> </ul>	<ul style="list-style-type: none"> <li>• Read and create data files.</li> <li>• Manipulate and transform data.</li> <li>• Create basic summary reports using SAS procedures.</li> <li>• Resolve programming errors.</li> <li>• Prepare data for analytics and reporting.</li> <li>✓ Use advanced functions and efficiency techniques.</li> <li>✓ Write and interpret SAS SQL code.</li> <li>✓ Create and use SAS macros.</li> </ul>

\*Or SAS Certified Base Programmer for SAS®9

To find out more certification details or register for an exam, visit: [sas.com/certify](https://sas.com/certify)